

DATA SHEET

	I	Model No.: GP570DHCB
Туре	: Rechargeable Nickel Metal Hydride Cylindrical Cell	
Nominal Dimension	= 34.2 mm	
(with Sleeve)	$\Phi = 34.2 \text{ mm}$ H = 61.5mm	
Applications	: Recommended discharge current	
Applications	570mA to 5.7A	
Nominal Voltage	: 1.2V	
Capacity	: Nominal: 5700mAh	+0
. ,	Minimum: 5700mAh	
	Typical: 5700mAh	61.5 -2.0
	When discharged at 1.14A to 1.0V at 20° C	
Charging Condition	: 570mA for 16hrs at 20°C	
Charge Retention	: 80% of nominal capacity after cell storage at	
_	20°C for 24months	
	When discharged at 1.14A to 1.0V at 20° C	
Fast Charge	: 2850mA to 5700mA (0.5 to 1C)	
	charge termination control recommended	
	control parameters:	24.2 · · · · (()) 8.0 (Ref.)
	-ΔV : 0-5mV	34.2 -2.0 (Kei.)
	DT/dt : 0.8°C/min (0.5 to 0.9C)	
	0.8 - 1°∁/min (>1C)	unit: mm
	TCO : 45 - 50°C	
	-	
	Timer : 105% nominal input	
	Timer : 105% nominal input (for ref. only)	Low Rate Discharge
Service Life	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard)	Low Rate Discharge
Continuous	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year.	
	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or	
Continuous Overcharge	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage	1.5 1.4 Charge:570mA ×16hrs at 20°C
Continuous Overcharge Weight	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g	1.5 1.4 Charge:570mA ×16hrs at 20°C
Continuous Overcharge	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4mΩ upon fully charged	1.5 1.4 Charge:570mA ×16hrs at 20°C
Continuous Overcharge Weight Internal Resistance	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4mΩ upon fully charged (Max.10mΩ) at 1000Hz	1.5 1.4 Charge:570mA ×16hrs at 20°C
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4mΩ upon fully charged (Max.10mΩ) at 1000Hz : 1.5V at 570mA charging	1.5 1.4 1.3 1.2 1.1 1.1 1.4 1.3 1.2 1.1 1.4 1.3 1.2 1.1 1.4 1.3 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4m Ω upon fully charged (Max.10m Ω) at 1000Hz : 1.5V at 570mA charging : Standard Charge : 0 to 45°C	1.5 1.4 Charge:570mA×16hrs at 20°C 1.3 1.2 1.1 1.1 1.1 1.1
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4m\Omega upon fully charged (Max.10m\Omega) at 1000Hz : 1.5V at 570mA charging : Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C	1.5 1.4 1.3 1.2 1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.2 1.2
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature	Timer: 105% nominal input (for ref. only): ~1000 cycles (IEC standard): 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage: 124g: Average 4m Ω upon fully charged (Max.10m Ω) at 1000Hz: 1.5V at 570mA charging: Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C	1.5 1.4 1.3 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.2
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4m\Omega upon fully charged (Max.10m\Omega) at 1000Hz : 1.5V at 570mA charging : Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C	1.5 1.4 1.3 1.2 1.1 1.1 0.9 0.8 Charge:570mA ×16hrs at 20°C 1.3 1.2 1.1 0.9 0.8
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature Range Fast Charge	Timer: 105% nominal input (for ref. only): ~1000 cycles (IEC standard): 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage: 124g: Average 4m Ω upon fully charged (Max.10m Ω) at 1000Hz: 1.5V at 570mA charging: Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C	1.5 1.4 1.3 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.2
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature Range	Timer: 105% nominal input (for ref. only): ~1000 cycles (IEC standard): 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage: 124g: Average 4m Ω upon fully charged (Max.10m Ω) at 1000Hz: 1.5V at 570mA charging: Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 30°C	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature Range Fast Charge	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4mΩ upon fully charged (Max.10mΩ) at 1000Hz : 1.5V at 570mA charging : Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 30°C	1.5 1.4 1.3 1.2 1.1 1.1 0.9 0.8 Charge:570mA ×16hrs at 20°C 1.3 1.2 1.1 0.9 0.8
Continuous Overcharge Weight Internal Resistance Max. Charging Voltage Ambient Temperature Range 1.6	Timer : 105% nominal input (for ref. only) : ~1000 cycles (IEC standard) : 570mA maximum current for 1 year. No conspicuous deformation and/or Leakage : 124g : Average 4mΩ upon fully charged (Max.10mΩ) at 1000Hz : 1.5V at 570mA charging : Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 30°C	$ \begin{array}{c} 1.5 \\ 1.4 \\ 3.12 \\ 1.2 \\ 1.1 \\ 1.1 \\ 0.9 \\ 0.8 \\ 0 \\ 2850 \\ 0 \\ 2 \\ 4 \\ 1.4 \\ 1.2 \\ 1.1 \\ 1.1 \\ 1.1 \\ 0.9 \\ 2850 \\ 0 \\ 2 \\ 4 \\ 1.4 \\ 1.2 \\ 1.4$

Voltage/V

1

17.1A(3C

20

10

0.9

0.8

0

1.4 1.3 1.2 1.1 0% 20% 40% 60% 80% 100% 120% 140% 160% Capacity Input

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11.4A(2C)

30

Time/min

40

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Member Golc Peak Group

5.7A(1C)

60

70

50